



SEQUENCE LISTING

<110> Kazemi-Esfarjani, Parsa
Benzer, Seymour

<120> AN ANIMAL MODEL OF POLYGLUTAMINE
TOXICITY, METHODS OF USE, AND MODULATORS OF POLYGLUTAMINE
TOXICITY

<130> 06618-686001

<140> US 09/639,207

<141> 2000-08-14

<150> US 60/148,934

<151> 1999-08-12

<150> US 60/148,933

<151> 1999-08-12

<150> US 60/177,047

<151> 2000-01-18

<150> US 60/205,720

<151> 2000-05-19

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<213> Drosophila

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 35 40 45
 Pro Lys Asn Ala Ser Tyr Tyr Gly Asn Arg Ala Ala Thr Leu Met Met
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 Leu Gly Arg Phe Arg Glu Ala Leu Gly Asp Ala Gln Gln Ser Val Arg
 65 70 75 80
 Leu Asp Asp Ser Phe Val Arg Gly His Leu Arg Glu Gly Lys Cys His

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<210> 19
<211> 679
<212> DNA
<213> Drosophila

<220>
<221> misc_feature
<222> (1)...(679)
<223> n = A,T,C or G

<400> 19
ctacttcgca tggcacgctt ttttcgctgt gctcggttcg ttcggccata caaaacacaa      60
aattcaagtt taaaaactaa ataggcaact aaaaggggaag ccgcagcgaa taaagtgatt      120
tgctgaaaga gacgtaagaa agttaatcgc atcgaaggca ccagaaatcg gggatttcta      180
acacggcgcg cgtgcgacgt acatacatat gcaagcgcac acacacacga acaattactt      240
gccattgacg caaaagcgaa aaagcagtgg aataaagggg aattgacaaa taacaacggt      300
ttgcaagcac tggactctgg tcgctggtgt tctttcattt tgtaattgcc acgcatggac      360
gacgaagtaa ttgaaattag cgacagcgaa cgcgaagaaa cctcatcgaa ctccgaaatg      420
gatgtggaaa taacgacaga acagccaacc atcgatgtca aagcagagca aattgtgcc      480
aaggacgcgg caaccattgc cgaggagaag aagaaactgg gcaacgacca atacaaggcg      540
cagaactatc agaatgcact caagctctac acggatgcc a tatcgctgtg tccggactcg      600
goggcatact atggcaatcg ggccgnctgc tacatgatgc tgctcaacta taatagcgcc      660
ctgaccgacg cccgacacg                                           679

<210> 20
<211> 529

```

<212> DNA
 <213> Drosophila

<400> 20
 actacttcgc atggcacgct tttttccgtg tgctcggttc gttcggccat acaaaacaca 60
 aaattcaagt ttaaaaaacta aataggcaac taaaaggga gccgcagcga gataaagtga 120
 tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180
 taacacggcg cgcgtgcacg tagcatacat acgcaagcgc acacacacac gaacaattac 240
 ttgccattga cgcaaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300
 ttttgcaagc actggactct ggtcgtggtt gttctttcat tttgtaattg ccacgcatgg 360
 acgacgaagt aattgaaatt agcgacagca tacgggatga aacctcatcg aactccgaaa 420
 tggatgtgga aataacgaca gaacagccaa ccacgatgtt caaagcagag caaattgtgc 480
 ccaaggacgc ggcaaccatt gccgaggaga agaagatact gggcaacga 529

<210> 21
 <211> 783
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(783)
 <223> n = A,T,C or G

<400> 21
 cactacttcg catggcacgc tttttccgtg gtgctcggtt cgttcggcca tacaaaacac 60
 aaaattcaag tttaaaaact aaataggcaa ctaaaaggga agccgcagcg aataaagtga 120
 tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180
 taacacggcg cgcgtgcacg gtacatacat acgcaagcgc acacacacac gaacaattac 240
 ttgccattga cgcaaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300
 ttttgcaagc actggactct ggtcgtggtt gttctttcat tttgtaattg ccacgcatgg 360
 acgacgaagt aattgaaatt agcgacacgn acgcgaagaa acctcatcga actccgaaat 420
 ggatgtggaa ataacgacag aacagccaac catcgatgtc aaagcagagc aaattgtgcc 480
 caaggacgcg gcaaccattg ccgaggagaa gaagaaactg ggcaacgacc aatacaaggc 540
 gcgaactat cagaatgcac tcaagctcta cacggatgcc atatcgctgt gtccggactc 600
 ggccgcatac tatggcaatc gggccgctg ctacatgatg ctgctcaact ataatagcgc 660
 cctgaccgac gcccgacacg ccatacgcac cgatccgggc ttcgagaagg cctacgtccg 720
 tgtggccaag tgctgtcttg ccctgggcga cattattggc ccgaacaggc cgtcaaaatg 780
 gtt 783

<210> 22
 <211> 677
 <212> DNA
 <213> Drosophila

<400> 22
 ttccaccact acttcgcatg gcacgctttt ttccgtgtgc tcggttcggt cggccataca 60
 aaacacaaaa ttcaagttta aaaactaaat gggcaactaa aagggaagcc gcagcgaata 120
 aagtgttttg ctgaaagaga cgtaagaaag ttaatcgcat cgaaggcacc agaaatcggg 180
 gatttctaac acggcgcgcg tgcgacgtac atacatacgc aagcgcacac acacacgaac 240
 aattacttgc cattgacgca aaagcgaaaa agcagtggaa taaaggggaa ttgacaaata 300
 acaacgtttt gcaagcactg gactctggtc gctggtgttc ttcatatttg taattgccac 360
 gcatggacga cgaagtaatt gaaattagcg acagcgaacg cgaagaaacc tcatcgaact 420
 ccgaaatgga tgtggaaata acgacagaac agccaacat cgatgtcaaa gcagagcaaa 480
 ttgtgcccac ggacgcggca accattgccg aggagaagaa gaaactgggc aacgaccaat 540
 acaaggcgca gaaactatcag aatgcaactca agctctacac ggatgccata tcgctgtgtc 600
 cggactcggc ggcatactat ggcaatcggg ccgcctgcta catgatgctg ctcaactata 660
 atagcgcctt gaccgac 677

<210> 23
 <211> 386

<212> DNA
<213> Drosophila

<400> 23
aactacttgc catggcacgc ttttttccgt gtgtcgggtt cgttcggcca tacaaaacac 60
aaaattcaag tttaaaaact aaataggcaa ctaaaaggga agccgcagcg aataaagtga 120
tttgctgaaa gagacgtaag aaagttaatc gcatcgaagg caccagaaat cggggatttc 180
taacacggcg cgcgtgcgac gtacatacat acgcaagcgc acacacacac gaacaattac 240
ttgccattga cgcaaaagcg aaaaagcagt ggaataaagg ggaattgaca aataacaacg 300
ttttgcaagc actggactct ggtcgtctgt gttctttcat tttgtaattg ccacgcattg 360
acgacgaagt aattgaaatt agcgac 386

<210> 24
<211> 537
<212> DNA
<213> Drosophila

<220>
<221> misc_feature
<222> (1)...(537)
<223> n = A,T,C or G

<400> 24
tttaacacaa atctcccatg atttattaat gttgccgaaa aaaaaatcca agaaagaaca 60
tttaaaaatg tgaacttaca ctggaaatth agttgcatta ttttgattta gaatattttt 120
tcaataaact tggcatatat tcattcgtta acataatcan aatgtggtat tttcttgctt 180
tttgaaaaag anatatgtan aagagttcaa aatttgtgcg ctgctgtatg ttggtttcgg 240
atgaggcaga aagtatggga ttgagatggt cttcttctct gtggtggtga acaacactcg 300
ttgggatcct agaactcaaa gttgaacgat gaattattcc ggccaccgcc gttgaattgg 360
aagaatgtgc ggaacatttg attcggatcg aagtcggctt gctcctgctc ctcgatatcc 420
tgcccgctgt cgtagcgcga cttcttgtga gcatccgaca gtatggcgta cgcctcgccc 480
acctccttga acttgagctc ctctcctctg cgctcctcgg cactgctgtt tgcgtgt 537

<210> 25
<211> 570
<212> DNA
<213> Drosophila

<220>
<221> misc_feature
<222> (1)...(570)
<223> n = A,T,C or G

<400> 25
tttttccgtg tgctcgggtc gttcggccat aaaaaacaca aaattcaagt ttaaaaacta 60
aataggcaac taaaaggga gccgcagcga ataaagtgat ttgctgaaag agacgtaaga 120
aagttaatcg catcgaaggc accagaaatc ggggatttct aacacggcgc gcgtgcgacg 180
tacatacata cgcaagcgca cacacacacg aacaattact tgccattgac gcaaaagcga 240
aaaagcagtg gaataaaggg gaattgacaa ataacaacgt tttgcaagca ctggactctg 300
gtcgtctggtg ttctttcatt ttgtaattgc cagcgtgga cgacgaagta attgaaatta 360
gcgacagcac cgcgcagaaa cctcatcgaa ctccgaaatg gatgtggaaa taacgcacaga 420
acagccaacc atcgatgtca aagcagagca nattgtgctc aaggacgcgg caaccattgc 480
cgaggagaag aagaaactgg gcaacgacca atacaaggcg cagaactatc agaatgcact 540
caagctctac acggatgcc aatcgctgtg 570

<210> 26
<211> 688
<212> DNA
<213> Drosophila

<400> 26

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcatcgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	cactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	gaacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
agaacagcca	accatcgatg	tcaaagcaga	gcaaattgtg	cccaaggacg	cggcaaccat	480
tgccgaggag	aagaagaaac	tgggcaacga	ccaatacaag	gcgcagaact	atcagaatgc	540
actcaagctc	tacacggatg	ccatatcgct	gtgtccggac	tcggcggcgcat	actatggcaa	600
tcggggccgcc	tgctacatga	tgctgctcaa	ctataatagc	gccctgaccg	acgcccgcaca	660
cgccatacgc	atcgatccgg	gcttcgag				688

<210> 27
 <211> 531
 <212> DNA
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcatcgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	cactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	gaacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
cgaacagcca	accatcgatg	tcaaagcaaa	acaaattgtg	cccaaggacg	cggcaaccat	480
tgccgaggag	aagaagaaac	tgggctacga	ccaatacaag	gcgcagaact	a	531

<210> 28
 <211> 479
 <212> DNA
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcatcgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	cactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgacagc	ggacgcgaag	aaacctcatc	gaactccgaa	atggatgtgg	aaataacgac	420
agaacagcca	accatcgatg	tcaaagcaga	gcaaattgtg	ccccaggacg	cggcaacca	479

<210> 29
 <211> 367
 <212> DNA
 <213> Drosophila

cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaca	caaaattcaa	gtttaaaaac	60
taaataggca	actaaaagg	aagccgcagc	gaataaagt	atttgctgaa	agagacgtaa	120
gaaagttaat	cgcatcgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	180
cgtacataca	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaagc	240
gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	cactggactc	300
tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	taattgaaat	360
tagcgac						367

<210> 30
 <211> 506
 <212> DNA

<213> Drosophila

<220>

<221> misc_feature

<222> (1)...(506)

<223> n = A,T,C or G

<400> 30

acgctttttt	ccgtgtgctc	ggttcgttcg	gccatacaaa	acacaaaatt	caagttttaa	60
aactaaatag	gcaactaaaa	gggaagccgc	agganataaa	gtgatttgct	gaaagagacg	120
taagaaagtt	aatcgcatcg	aaggcaccag	aaatcgggga	tttctaacac	ggcgcgcgtg	180
gacgtacata	catacgcaag	cggcacacac	acacgaacaa	ttacttgcca	ttgacgcaaa	240
agcgaaaaag	cagtgggaata	aagggggaatt	gacaaataac	aacgttttgc	aagcactgga	300
ctctggtcgc	tggtgttctt	tcatttttga	attgccacgc	atggacgacg	aagtaattga	360
aattagcgac	aggancgcgn	agaaacctca	tcgaactccg	aaatggatgt	ggaaataacg	420
acagaacagc	caaccatcga	tgtcaaagca	gagcaaattg	tgcccaagga	cgcggcaacc	480
attgccgagg	agaagaagaa	actggg				506

<210> 31

<211> 370

<212> DNA

<213> Drosophila

<400> 31

gcacgctttt	ttccgtgtgc	tcggttcggt	cggccataca	aaacacaaaa	ttcaagttta	60
aaaactaaat	aggcaactaa	aagggaagcc	gcagcgaata	aagtgatttg	ctgaaagaga	120
cgtaagaaag	ttaatcgcat	cgaaggcacc	agaaatcggg	gatttctaac	acggcgcgcg	180
tgcgacgtac	atacatagc	aagcgcacac	acacacgaac	aattacttgc	cattgacgca	240
aaagcgaaaa	agcagtggaa	taaaggggaa	ttgacaaata	acaacgtttt	gcaagcactg	300
gactctggtc	gctggtgttc	tttcattttg	taattgccac	gcatggacga	cgaataattg	360
aaattagcga						370

<210> 32

<211> 377

<212> DNA

<213> Drosophila

<400> 32

cacgcttttt	tccgtgtgct	cggttcgttc	ggccatacaa	aacacaaaat	tcaagtttaa	60
aaactaaata	ggcaactaaa	agggaaagcc	cagcgaataa	agtgatttgc	tgaaagagac	120
gtaagaaagt	taatcgcatc	gaaggcacca	gaaatcgggg	atttctaaca	cggcgcgcgt	180
gcgacgtaca	tacatacgca	agcgcacaca	cacacgaaca	attacttgcc	attgacgcaa	240
aagcgaaaaa	gcagtggaat	aaaggggaat	tgacaaataa	caacgttttg	caagcactgg	300
actctggtcg	ctggtgttct	ttcattttgt	aattgccacg	catggacgac	gaagtaattg	360
agattagcga	ccgcac					377

<210> 33

<211> 691

<212> DNA

<213> Drosophila

<400> 33

catggcacgc	ttttttccgt	gtgctcggtt	cgttcggcca	tacaaaacac	aaaattcaag	60
tttaaaaact	aaataggcaa	ctaaaaggga	agccgcagcg	aataaagtga	tttgctgaaa	120
gagacgtaag	aaagttaatc	gcacggaagg	caccagaaat	cggggatttc	taacacggcg	180
cgcgtgacgc	gtacatacat	acgcaagcgc	acacacacac	gaacaattac	ttgccattga	240
cgcaaaagcg	aaaaagcagt	ggaataaagg	ggaattgaca	aataacaacg	ttttgcaagc	300
actggactct	ggtcgctggt	gttctttcat	tttgtaattg	ccacgcatgg	acgacgaagt	360
aattgaaatt	agcgacagcg	aacgcgaaga	aacctcatcg	aactccgaaa	tggatgtgga	420
aataacgaca	gaacagccaa	ccatcgatgt	caaagcagag	caaattgtgc	ccaaggacgc	480
ggcaaccatt	gccgaggaga	agaagaaact	gggcaacgac	caatacaagg	cgcagaacta	540

tcagaatgca	ctcaagctct	acacggatgc	catatcgctg	tgtccggact	cggcggcata	600
ctatggcaat	cgggccgcct	gctacatgat	gctgctcaac	tataatagcg	ccctgaccga	660
cgcccgacac	gccatacgca	tcgatccggg	c			691

<210> 34
 <211> 635
 <212> DNA
 <213> Drosophila

<400> 34						
gcacgctttt	ttccgtgtgc	tcggttcggt	cggccataca	aaacacaaaa	ttcaagttaa	60
aaaactaaat	aggcaactaa	aagggaagcc	gcagcgacat	aaagtgattt	gctgaaagag	120
acgtaagaaa	gttaatcgca	tcgaaggcac	cagaaatcgg	ggatttctaa	cacggcgcg	180
gtggacgtac	atacatagc	aagcgcacac	acacacgaac	aattacttgc	cattgacgca	240
aaagcaaaaa	gcagtgggaat	aaagggggaat	tgacaaaataa	caacgttttg	caagcactgg	300
actctggtcg	ctggtgttct	ttcattttgt	aattgccacg	catggacgac	gaagtaattg	360
aaattagcga	cagtaccgcg	cagaaacctc	atcgaactcc	gaaatggatg	tggaaataac	420
gacagaacag	ccaaccatcg	atgtcaaagc	agagcaaatt	gtgcccaagg	acgcggcaac	480
cattgccgag	gagaagaaga	aactgggcaa	cgaccaatac	aaggcgcaga	actatcagaa	540
tgcaactcaag	ctctacacgg	atgccatc	gctgtgtccg	gactcggcgg	catactatgg	600
caatcggggc	gcctgctaca	tgatgtgtgc	caact			635

<210> 35
 <211> 589
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 35						
gcatggcacg	cttttttccg	tgtgctcggt	tcgttcggcc	atacaaaaaca	caaaattcaa	60
gtttaaaaaac	taaataaggca	actaaaaggg	aagccgcagc	gaataaaagt	atttgctgaa	120
agagacgtaa	gaaagttaat	cgcatcgaag	gcaccagaaa	tcggggattt	ctaacacggc	180
gcgcgtgcga	cgtacatata	tacgcaagcg	cacacacaca	cgaacaatta	cttgccattg	240
acgcaaaaagc	gaaaaagcag	tggaataaag	gggaattgac	aaataacaac	gttttgcaag	300
caactggactc	tggtcgctgg	tggtctttca	ttttgtaatt	gccacgcatg	gacgacgaag	360
taattgaaat	tagcgacagc	anacgcgaag	aaacctc	gaactccgaa	atggatgtgg	420
aaataacgac	agaacagcca	accatcgatg	tcaaagcaga	gcaaattgtg	cccaaggacg	480
cggaaccat	tgccgaggag	aagaagaaac	tgggcaacga	ccaatacaag	gcgcagaact	540
atcagaatgc	actcaagctc	tacacggatg	ccatcgcgt	gtgtccgga		589

<210> 36
 <211> 566
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(566)
 <223> n = A,T,C or G

<400> 36						
atatgtatat	ttctgtttat	ttaacacaaa	tctccatga	tttattaatg	ttgccgaaaa	60
aaaaaatcca	agaaagaaca	tttaaaaatg	tgaacttaca	ctggaaattt	agttgcatta	120
ttttgattta	aaatattttt	tcaataaact	tggcatatat	tcattcgtaa	acataatcaa	180
aatgtggtat	tttcttgctt	tttgaaaaag	aaatatgtaa	aagagttcaa	aattttgtcg	240
ctgctgtatg	ttggtttcgg	atgaggcaga	aagtatggga	ttgagatggt	cttcttctct	300
gtggtggtga	acaacactcg	ttgggatcct	agaactcaaa	gttgaacgat	gaattattcc	360

ggccaccgcc	gttgaattgg	aagaatgtgc	ggaacatttg	attcggatcg	aagtcggctt	420
gctcctgctc	ctcgatatcc	tggccgctgt	cgtancgcga	cttcttgtga	gcatccgaca	480
gtatggcgta	cgctcgcgcc	acctccttga	acttgagctc	ctcctccttg	cgctcctcgg	540
cactgctggt	tgcgtgtcga	tccgga				566

<210> 37
 <211> 589
 <212> DNA
 <213> Drosophila

<400> 37						
aactatcaga	atgcactcaa	gctctacacg	gatgccatat	cgctgtgtcc	ggactcggcg	60
gcatactatg	gcaatcgggc	cgctcgtctac	atgatgctgc	tcaactataa	tagcgcctg	120
accgacgccc	gacacgccat	acgcacgat	ccgggcttcg	agaaggccta	cgcccggtgtg	180
gccaaagtgt	gtctggccct	ggcgacatt	attggcaccg	aacaggccgt	caaaatggtc	240
aacgagctga	attcgcttag	cacggctgtt	gctgccgaac	agacggcggc	gcaaaagtgtg	300
cgccaatttg	aggccaccat	tcaggcgaac	tacgatacga	aatcctatcg	caatgtggtc	360
ttctatattg	atagtgcctt	gaaattggcg	cccgcctgtt	tgaaatatcg	tctactcaag	420
gctgagtgc	ttgcattttt	ggggcgatgt	gatgaggcct	tggacattgc	ggtcagtgtg	480
atgaaactgg	ataccacatc	ggcggatgcg	atatacgtga	gaggtctgtg	cctgtactac	540
acggacaacc	tggacaaggg	aattcttcat	ttcgagcgcg	ccctgacct		589

<210> 38
 <211> 654
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(654)
 <223> n = A,T,C or G

<400> 38						
aaactgggca	acgaccaata	caaggcgag	aactatcaga	atgcactcaa	gctctacacg	60
gatgccatat	cgctgtgtcc	ggactcggcg	gcatactatg	gcaatcgggc	cgctcgtctac	120
atgatgctgc	tcaactataa	tagcgcctg	accgacgccc	gacacgccat	acgcacgat	180
ccgggcttcg	agaaggccta	cgcccggtgtg	gccaaagtgt	gtctggccct	ggcgacatt	240
attggcaccg	aacaggccgt	caaaatggtc	aacgagctga	attcgcttag	cacggctgtt	300
gctgccgaac	agacggcggc	gcaaaagtgt	cccaanttg	aggccaccat	tcaggcgaac	360
tacgatacga	aatcctatcg	caatgtggtc	ttctatattg	atagtgcctt	gaaattggcg	420
ccgcacgtgt	tgaaatatcg	tctactcaag	gctgagtgc	ttgcattttt	ggggcgatgt	480
gatgaggcct	tggacattgc	ggtcagtgtg	atgaaactgg	ataccacatc	ggcggatgcg	540
atatacgtga	gaggtctgtg	cctgtactac	acggacaacc	tggacaaggg	aattcttcat	600
ttcgagcgcg	ccctgacct	cgacccggac	cactaccagt	ccaagcagat	gcgc	654

<210> 39
 <211> 631
 <212> DNA
 <213> Drosophila

<400> 39						
acgacagaac	agccaacat	cgatgtcaaa	gcagagcaaa	ttgtgcccaa	ggacgcggca	60
accattgccg	aggagaagaa	gaaactgggc	aacgaccaat	acaaggcgca	gaactatcag	120
aatgcactca	agctctacac	ggatgccata	tcgctgtgtc	cggactcggc	ggcatactat	180
ggcaatcggg	ccgcctgcta	catgatgctg	ctcaactata	atagcgcctt	gaccgacgcc	240
cgacacgcca	tacgcacga	tccgggcttc	gagaaggcct	acgtccgtgt	ggccaaagtgc	300
tgtctggccc	tgggcgacat	tattggcacc	gaacaggccg	tcaaaatggt	caacgagctg	360
aattcgctta	gcacggctgt	tgctgccgaa	cagacggcgg	cgcaaaagt	gcgccaattg	420
gaggccacca	ttcaggcgaa	ctacgatac	aaatcctatc	gcaatgtggt	cttctatattg	480
gatagtgcct	tgaaattggc	gcccgcctgt	ttgaaatatc	gtctactcaa	ggctgagtgc	540
cttgcatttt	tggggcgatg	tgatgaggcc	ttggacattg	cggtcagtgt	aatgaaactg	600

gataccacat cggcggatgc gatatacgtg a

631

<210> 40
<211> 562
<212> DNA
<213> Drosophila

<400> 40
acgacagaac agccaacccat cgatgtcaaa gcagagcaaa ttgtgcccac ggacgcggca 60
accattgccg aggagaagaa gaaactgggc aacgaccaat acaaggcgca gaactatcag 120
aatgcactca agctctacac ggatgccata tcgctgtgtc cggactcggc ggcatactat 180
ggcaatcggg ccgcctgcta catgatgctg ctcaactata atagcgccct gaccgacgcc 240
cgacacgcca tacgcatcga tccgggcttc gagaaggcct acgtccgtgt ggccaagtgc 300
tgtctggccc tgggcgacat tattggcacc gaacaggccg tcaaaatggt caacgagctg 360
aattcgctta gcacggctgt tgctgccgaa cagacggcgg cgcaaaagtt gcgccaattg 420
gaggccacca tttagggcga ctacgatacg aaatcctatc gcaatgtggt cttctatttg 480
gatagtgcct tgaaattggc gcccgctgt ttgaaatata ggctactcaa agctgagtg 540
cttgcatctt tggggcgatg tg 562

<210> 41
<211> 541
<212> DNA
<213> Drosophila

<400> 41
ccatacaaaa cacaaaattc aagtttaaaa actaaatagg caactaaaag ggaagccgca 60
gcgaataaag tgatttgctg aaagagacgt aagaaagtta atcgcatcga aggcaccaga 120
aatcggggat ttctaacacg gcgcgcgtgc gacgtacata catacgcaag cgcacacaca 180
cacgaacaat tacttgccat tgacgcaaaa gcgaaaaagc agtggaataa aggggaattg 240
acaaataaca acgttttgca agcaactggac tctggctcgt ggtgttcttt cattttgtaa 300
ttgccacgca tggacgacga agtaattgaa attagcgaca gcgaacgca agaaacctca 360
tcgaactccg aaatggatgt ggaaataacg acagaacagc caaccatcga tgtcaaagca 420
gagcaaatg tgccaagga cgcggcaacc attgccgagg agaagaagaa actgggcaac 480
gaccaatata aggcgcagaa ctatcagaat gcaactcaagc tctacacgga tgccatatcg 540
c 541

<210> 42
<211> 561
<212> DNA
<213> Drosophila

<220>
<221> misc_feature
<222> (1)...(561)
<223> n = A,T,C or G

<400> 42
ttcgttcggc catacaaaa acaaaattca agtttaaaaa ctaaataggc aactaaaagg 60
gaagccgcag cgaataaagt gatttgctga aagagacgta agaaagttaa tcgcatcgaa 120
ggcaccagaa atcggggatt tctaacacgg cgcgcgtgcg acgtacatac atacgcaagc 180
gcacacacac acgaacaatt acttgccatt gacgcaaaag cgaaaaagca gtggaataaa 240
ggggaattga caaataacaa cgttttgcaa gcaactggact ctggctcgtg gtgttctttc 300
atctttgtaat tgccacgcat ggacgacgaa gtaattgaaa ttagcgacag cancgcacag 360
aaacctcatc gaactccgaa atggatgtgg aaataacgac agaacagcca accatcgatg 420
tcaaagcaga gcaaattgtg cccaaggacg cggcaaccat tgccgaggag aagaagaaac 480
tgggcaacga ccaatacaag gcgcagaact atcagaatgc actcaagctc tacacggatg 540
ccatatcgct gtgtccggac t 561

<210> 43
<211> 618
<212> DNA

<213> Drosophila

<220>

<221> misc_feature

<222> (1)...(618)

<223> n = A,T,C or G

<400> 43

ttcgttcggc	catacaaaac	acaaaattca	agtttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacac	ganacgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatcgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg	tgtgtccgga	ctcggcggca	tactatggca	atcggggccgc	ctgctacatg	600
atgctgctca	actataat					618

<210> 44

<211> 582

<212> DNA

<213> Drosophila

<400> 44

ttcgttcggc	catacaaaac	acaaaattca	agtttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacac	gaatcgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatcgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg	tgtgtccgga	ctcggcggca	tactatggca	at		582

<210> 45

<211> 550

<212> DNA

<213> Drosophila

<400> 45

ttcgttcggc	catacaaaac	acaaaattca	agtttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcggtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	gcactggact	ctggtcgctg	gtgttccttc	300
atthttgtaat	tgccacgcat	ggacgcagaa	gtaattgaaa	ttagcgacag	cgaacgcgaa	360
gaaacctcat	cgaactccga	aatggatgtg	gaaataacga	cagaacagcc	aacctatcgat	420
gtcaaagcag	agcaaattgt	gccaaggac	gcggcaacca	ttgccgagga	gaagaagaaa	480
ctgggcaacg	accaatacaa	ggcgcagaa	tatcagaatg	cactcaagct	ctacacggat	540
gccatatacg						550

<210> 46

<211> 547

<212> DNA

<213> Drosophila

<220>

<221> misc_feature

<222> (1)...(547)

<223> n = A,T,C or G

<400> 46

ttcgttcggc	catacaaaaac	acaaaattca	agttttaaaaa	ctaaataggc	aactaaaagg	60
gaagccgcag	cgaataaaagt	gatttgctga	aagagacgta	agaaagttaa	tcgcatcgaa	120
ggcaccagaa	atcggggatt	tctaacacgg	cgcgcgtgcg	acgtacatac	atacgcaagc	180
gcacacacac	acgaacaatt	acttgccatt	gacgcaaaag	cgaaaaagca	gtggaataaa	240
ggggaattga	caaataacaa	cgttttgcaa	ggcactggac	tctggtcgct	ggtgttcttt	300
cattttgtaa	ttgccacgca	tggaacgacg	agtaattgaa	attagcgaca	cganacgcga	360
agaaacctca	tcgaactccg	aaatggatgt	ggaaataacg	acagaacagc	caaccatcga	420
tgtcaaagca	gagcaaattg	tgcccaagga	cgcggcaacc	attgccgagg	agaagaagaa	480
actgggcaac	gaccaatata	aggcgcagaa	ctatcagaat	gcactcaagc	tctacacgga	540
tgccata						547

<210> 47

<211> 487

<212> DNA

<213> Drosophila

<400> 47

tcggttcggt	cggccataca	aaacacaaaa	ttcaagttta	aaaactagat	aggcaactaa	60
aagggaagcc	gcagcgaata	aagtgatttg	ctgaaagaga	cgtaagaaag	ttaatcgcat	120
cgaaggcacc	agaaatcggg	gatttctaac	acggcgcgcg	tgcgacgtac	atacatacgc	180
aagcgcacac	acacacgaac	aattacttgc	cattgacgca	aaagcgaaaa	agcagtggaa	240
taaaggggaa	ttgacaaata	acaacgtttt	gcaagcactg	gactctggtc	gctggtgttc	300
tttcattttg	taattgccac	gcatggacga	cgaagtaatt	gaaattagcg	acagcagcgc	360
ggagaaaacct	catcgaactc	cgaaatggat	gtggacataa	cgacagaaca	gccaaccatc	420
gatgtcaaag	cagagcggat	tgtgccaag	gacgcggcaa	ccattgccga	ggagaagaag	480
aaactgg						487

<210> 48

<211> 246

<212> DNA

<213> Drosophila

<400> 48

tgtgctcggt	tcgttcggcc	atacaaaaaca	caaaattcaa	gtttaaaaac	taaataggca	60
actaaaaggg	aagccgcagc	gaataaaagt	atgttctgaa	agagacgtaa	gaaagttaat	120
cgcacgcgaag	gcaccagaaa	tcggggattt	ctaacacggc	gcgcgtgcga	cgtacataca	180
tacgaacgcg	cacacacaca	cgaacaatta	cttgccattg	acgcaaaaagc	gaaaaagcag	240
tggaat						246

<210> 49

<211> 170

<212> DNA

<213> Drosophila

<400> 49

ttttccgtgt	gctcggttcg	ttcggccata	caaaacacaa	aattcaagtt	taaaaactaa	60
ataggcaact	aaaagggaag	ccgcagcgaa	taaagtgatt	tgctgaaaga	gacgtaagaa	120
agttaatcgc	atcgaaggca	ccagaaatcg	gggatttcta	aaacggcgcg		170

<210> 50

<211> 511

<212> DNA

<213> Drosophila

<400> 50

ttttccgtgt	gctcggttcg	ttcggccata	caaaacacaa	aattcaagtt	taaaaactaa	60
ataggcaact	aaaagggaag	ccgcagcgaa	taaagtgatt	tgctgaaaga	gacgtaagaa	120

agttaatcgc	atcgaaggca	ccagaaatcg	gggatttcta	acacggcgcg	cgtgcgacgt	180
acatacatat	gcaagcgcac	acacacacga	acaattactt	gccattgacg	caaaagcgaa	240
aaagcagtgg	aataaagggg	aattgacaaa	taacaacggt	ttgcaagcac	tggactctgg	300
tcgctgggtg	tctttcattt	tgttaattgcc	acgcatggac	gacgagtaat	tgaaattagc	360
gacagcatat	gcgaagaaac	ctcatcgaac	tccgaaatgg	atgtggaaat	aacgacagaa	420
cagccaacca	tcgatgtcaa	agcagagcaa	attgtgcccc	aggacgcggc	aaccattgcc	480
gaggagaaga	agaaactggg	caacgaccaa	t			511

<210> 51
 <211> 702
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(702)
 <223> n = A,T,C or G

<400> 51						
tttttccgtg	tgctcggttc	gttcggccat	acaaaacaca	aaattcaagt	ttaaaaacta	60
aataggcaac	taaaagggaa	gccgcagcga	nataaagtga	tttgctgaaa	gagacgtaag	120
aaagttaatc	gcatcgaagg	caccagaaat	cggggatttc	taacacggcg	cgctgacacg	180
tacatacata	cgcaagcgca	cacacacacg	aacaattact	tgccattgac	gcaaaagcga	240
aaaagcagtg	gaataaaggg	gaattgacaa	ataacaacgt	tttgcaagca	ctggactctg	300
gtcgtggtg	ttctttcatt	ttgtaattgc	cacgcatgga	cgacgaagta	attgaaatta	360
gcgaccggan	cgcnagaaaa	cctcatcgaa	ctccgaaatg	gatgtggaaa	taacgacaga	420
acagccaacc	atcgatgtca	aagcagagca	aattgtgccc	aaggacgcgg	caaccattgc	480
cgaggagaag	aagaaactgg	gcaacgacca	atacaaggcg	cagaactatc	agaatgcact	540
caagctctac	acggatgccca	tatcgctgtg	tccggactcg	gcggcatact	atggcaatcg	600
ggccgcctgc	tacatgatgc	tgctcaacta	taatagcgcc	ctgaccgacg	cccgacacgc	660
catacgcatc	gatccgggct	tcgagaaggc	ctacgtccgt	gt		702

<210> 52
 <211> 598
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(598)
 <223> n = A,T,C or G

<400> 52						
tttttccgtg	tgctcggttc	gttcggccat	acaaaacaca	aaattcaagt	ttaaaaacta	60
aataggcaac	taaaagggaa	gccgcagcga	ataaagtgat	ttgctgaaag	agacgtaaga	120
aagttaatcg	catcgaaggc	accagaaatc	ggggatttct	aacacggcg	gcgtgcgacg	180
tacatacata	cgcaagcgca	cacacacacg	aacaattact	tgccattgac	gcaaaagcga	240
aaaagcagtg	gaataaaggg	gaattgacaa	ataacaacgt	tttgcaagca	ctggactctg	300
gtcgtggtg	ttctttcatt	ttgtaattgc	cacgcatgga	cgacgaagta	attgaaatta	360
gcgacaggan	cgcnagaaaa	cctcatcgaa	ctccgaaatg	gatgtggaaa	taacgacaga	420
acagccaacc	atcgatgtca	aagcagagca	aattgtgccc	aaggacgcgg	caaccattgc	480
cgaggagaag	aagaaactgg	gcaacgacca	atacaaggcg	cagaactatc	agaatgcact	540
caagctctac	acggatgccca	tatcgctgtg	tccggactcg	gcggcatact	atggcaat	598

<210> 53
 <211> 669
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature

<222> (1)...(669)

<223> n = A,T,C or G

<400> 53

acaaaaatgt	ctttatttcgg	agcgttgatg	ggtgatttcg	acgacgatct	cggccttatg	60
aacaaccaca	tgaaccacac	tatgaacgcg	atgaacatgc	agatgcgctc	gatgaatcgc	120
ctgatgaaca	gctttatgcc	cgatcccttc	atgcaggtct	cgccctttga	ccagggattc	180
cagcagaacg	ctctcatgga	gcgtccgcag	atgccggcca	tgccagccat	gggcctcttc	240
ggcatgcccc	nntgatgcca	caaactttaa	tcgcccgttg	aacgctgata	ttggtggcaa	300
ttcaggcgca	tccttctgcc	agagcaccgt	gatgaccatg	tcacggggtc	ccgatgggcg	360
tcctcagatc	taccaggcca	gcactagtac	caaaacagga	ccgggaggcg	ttcgtgagac	420
ccgcaggacg	gtgcaggact	cgcgcaactg	ggtgaagaag	atggccattg	gtcatcacat	480
cggcgagcgg	gcacacatta	ttgagaaaga	gcaggacatg	cgctcaggac	aactggagga	540
gcgccaggag	ttcattaatc	tggaggaggg	agaagccgag	cagtttgaca	gggagtttac	600
atcgcgcgct	agtcgcggag	cgtgcagtca	agacatcatg	ctggtggcat	gcaggccatc	660
atgcccgc						669

<210> 54

<211> 563

<212> DNA

<213> Drosophila

<400> 54

agaaagccaa	cacaatccac	aaaaatgtct	ttattcggag	cgttgatggg	tgatttcgac	60
gacgatctcg	gccttatgaa	caaccacatg	aaccacacta	tgaacgcgat	gaacatgcag	120
atgcgctcga	tgaatcgctc	gatgaacagc	tttatgcccg	atcccttcat	gcagggtctcg	180
ccctttgacc	agggattcca	gcagaacgct	ctcatggagc	gtccgcagat	gccggccatg	240
ccagccatgg	gcctcttcgg	catgcccatt	atgccaaaact	ttaatcgctc	gttgaacgct	300
gatattgggtg	gcaattcagg	cgcatccttc	tgccagagca	ccgtgatgac	catgtcatcg	360
ggtcccgatg	ggcgctccta	gatctaccag	gccagcacta	gtaccaaaac	aggaccggga	420
ggcggttcgtg	agaccgcgag	gacgggtgcag	gactcgcgca	ctgggggtgaa	gaagatggcc	480
attggtcatc	acatcggcga	gcgggcacac	attattgaga	aagagcagga	catgcgctca	540
ggacaactgg	aggagcgcca	gga				563

<210> 55

<211> 763

<212> DNA

<213> Drosophila

<400> 55

aaaattcgag	caacagaaag	ccaacacaaat	ccacaaaaat	gtctttattc	ggagcgttga	60
tgggtgattt	cgacgacgat	ctcggcctta	tgaacaacca	catgaaccac	actatgaacg	120
cgatgaacat	gcagatgcgc	tcgatgaatc	gcctgatgaa	cagctttatg	cccgatccct	180
tcatgcaggt	ctcgcccttt	gaccagggat	tccagcagaa	cgctctcatg	gagcgtccgc	240
agatgccggc	catgccagcc	atgggcctct	tcggcatgcc	catgatgcca	aactttaatc	300
gcctgttgaa	cgctgatatt	ggtggcaatt	caggcgcata	cttctgccag	agcaccgtga	360
tgaccatgtc	atcgggtccc	gatgggcgtc	ctcagatcta	ccaggccagc	actagtacca	420
aaacaggacc	gggaggcggt	cgtgagaccc	gcaggacggt	gcaggactcg	cgcaactggg	480
tgaagaagat	ggccatttgt	catcacatcg	gcgagcgggc	acacattatt	gagaaagagc	540
aggacatgcg	ctcaggacaa	ctggaggagc	gccaggagtt	cattaatctg	gaggagggag	600
aagccgagca	gtttgacagg	gagttttacat	cgcgcgctag	tcgcggaggc	gtgcagtcaa	660
gacatcatgc	tgggtggcatg	caggccatca	tgcccgcgcg	tccagcggca	cacacctcga	720
cgttgaccat	tgagccagtg	gaggacgacg	acgacgatga	tgc		763

<210> 56

<211> 709

<212> DNA

<213> Drosophila

<220>

<221> misc_feature

<222> (1)...(709)
 <223> n = A,T,C or G

<400> 56
 agaagaaaat tgcagcaaca gaaagccaac acaatccaca aaaatgtctt tattcggagc 60
 gttgatgggt gatttcgacg acgatctcgg ccttatgaac aaccacatga accacactat 120
 gaacgcgatg aacatgcaga tgcgctcgat gaatcgcttg atgaacagct ttatgccoga 180
 tcccttcgat caggtctcgc cctttgacca gggattccag cagaacgctc tcatggagcg 240
 tccgcagatg cgggccatgc cagccatggg cctcttcggc atgcccatga tgccaaactt 300
 taatcgcttg ttgaacgctg atattggtgg caattcaggc gcatccttct gccagagcac 360
 cgtgatgacc atgtcatcgg gtcccgatgg gcgtcctcag atctaccagg ccagcactag 420
 taccaaaaaca ggaccgggag gcgttcgtga gaccgcaggg acggtgcagg actcgcgcac 480
 tgggggtgaag aagatggcca ttggtcatca catcggcgag cgggcacaca ttattgagaa 540
 agagcaggac atgcgctcag gacaactgga ggagcgccag gagttcatta atctggagga 600
 gggagaagcc gagcagtttg acagggagtt tacatcgcg gctagtcgcg gagcgggtgca 660
 gtcaagacat catgctggtg gcatgcatgc catcatgccc gnccgtcca 709

<210> 57
 <211> 599
 <212> DNA
 <213> Drosophila

<400> 57
 aaagaagaaa attcgagcaa cagaaagcca acacaatcca caaaaatgtc tttattcggga 60
 gcgttgatgg gcgatttcga cgacgatctc ggccttatga acaaccacat gaaccacact 120
 atgaacgcga tgaacatgca gatgcgctcg atgaatcgcc tgatgaacag ctttatgccc 180
 gatcccttca tgcaggtctc gccctttgac cagggattcc agcagaacgc tctcatggag 240
 cgtccgcaga tgcgggccat gccagccatg ggactcttcg gcatgcccac gatgccaaac 300
 tttaatcgcc tggtgaacgc tgatattggt ggcaattcag gcgcatcctt ctgccagagc 360
 accgtgatga ccatgtcatc ggggtcccga gggcgctcctc agatctacca ggccagcact 420
 agtaccaaga caggaccggg aggcgttcgt gagaccgcga agacggtgca ggactcgcgc 480
 actgggggtga agaagatggc cattgggtcat cacatcggcg agcgggcaca cattattgag 540
 aaagagcagg acatgcgctc aggacaactg gaggagcgcc aggagttcat taatctgga 599

<210> 58
 <211> 608
 <212> DNA
 <213> Drosophila

<400> 58
 aaagaagaaa attcgagcaa cagaaagcca acacaatcca caaaaatgtc tttattcggga 60
 gcgttgatgg gcgatttcga cgacgatctc ggccttatga acaaccacat gaaccacact 120
 atgaacgcga tgaacatgca gatgcgctcg atgaatcgcc tgatgaacag ctttatgccc 180
 gatcccttca tgcaggtctc gccctttgac cagggattcc agcagaacgc tctcatggag 240
 cgtccgcaga tgcgggccat gccagccatg ggactcttcg gcatgcccac gatgccaaac 300
 tttaatcgcc tggtgaacgc tgatattggt ggcaattcag gcgcatcctt ctgccagagc 360
 accgtgatga ccatgtcatc ggggtcccga gggcgctcctc agatctacca ggccagcact 420
 agtaccaaga caggaccggg aggcgttcgt gagaccgcga agacggtgca ggactcgcgc 480
 actgggggtga agaagatggc cattgggtcat cacatcggcg agcgggcaca cattattgag 540
 aaagagcagg acatgcgctc aggacaactg gaggagcgcc aggagttcat taatctgga 600
 gagggaga 608

<210> 59
 <211> 585
 <212> DNA
 <213> Drosophila

<400> 59
 aaagaagaaa attcgagcaa cagaaagcca acacaatcca caaaaatgtc tttattcggga 60
 gcgttgatgg gcgatttcga cgacgatctc ggccttatga acaaccacat gaaccacact 120
 atgaacgcga tgaacatgca gatgcgctcg atgaatcgcc tgatgaacag ctttatgccc 180

gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggactcttcg	gcatgcccac	gatgccaaac	300
tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcctcctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtaccaaga	caggaccggg	aggcggttcg	gagacccgca	agacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
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<210> 60
 <211> 591
 <212> DNA
 <213> Drosophila

<400> 60						
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atgaacgcga	tgaacatgca	gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgccc	180
gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
cgtccgcaga	tgccggccat	gccagccatg	ggcctcttcg	gcatgcccac	gatgccaaac	300
tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcctcctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtacaaaaa	caggaccggg	aggcggttcg	gagacccgca	ggacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
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<210> 61
 <211> 657
 <212> DNA
 <213> Drosophila

<400> 61						
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gatcccttca	tgcaggtctc	gccctttgac	cagggattcc	agcagaacgc	tctcatggag	240
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tttaatcgcc	tgttgaacgc	tgatattggt	ggcaattcag	gcgcctcctt	ctgccagagc	360
accgtgatga	ccatgtcatc	gggtcccgat	gggcgtcctc	agatctacca	ggccagcact	420
agtacaaaaa	caggaccggg	aggcggttcg	gagacccgca	ggacggtgca	ggactcgcgc	480
actggggtga	agaagatggc	cattggtcat	cacatcggcg	agcgggcaca	cattattgag	540
aaagagcagg	acatgcgctc	aggacaactg	gaggagcgcc	aggagtcat	taatctggag	600
gagggagaag	ccgagcagtt	tgacagggag	tttacatcgc	gcgctagtgc	cggagcgc	657

<210> 62
 <211> 718
 <212> DNA
 <213> Drosophila

<220>
 <221> misc_feature
 <222> (1)...(718)
 <223> n = A,T,C or G

<400> 62						
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aaaaatgtct	ttattcgagg	cggtgatggg	tgatttcgac	gacgatctcg	gccttatgaa	120
caaccacatg	aaccacacta	tgaacgcgat	gaacatgcag	atgcgctcga	tgaatcgctt	180
gatgaacagc	tttatgcccg	atcccttcat	gcaggtctcg	ccctttgacc	agggattcca	240
gcagaacgct	ctcatggagc	gtccgcagat	gccggccatg	ccagccatgg	gcctcttcgg	300
catgcccacg	atgcccacac	ttaatcgctt	gttgaacgct	gatattggtg	gcaattcagg	360
cgcctccttc	tgccagagca	ccgtgatgac	catgtcatcg	ggtcccgatg	ggcgtcctca	420

gatctaccag	gccagcacta	gtacccaaaac	aggaccggga	ggcgttcgtg	agacccgcag	480
gacgggtgcag	gactcgcgca	ctgggggtgaa	gaagatggcc	attgggtcatc	acatcggcga	540
gcggggcacac	attattgaga	aagagcagga	catgcgctca	ggacaactgg	aggagcgcca	600
ggagttcatt	aatctggagg	agggagaagc	cgagcagttt	gacagggagt	ttacatcgcg	660
cgctagtcgc	ggagcgggtgc	agtcaagaca	tcatgctggt	ggcatgcang	ccatcatg	718

<210> 63
 <211> 497
 <212> DNA
 <213> Drosophila

<400> 63						
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atccacaaaa	atgtctttat	tccggagcgtt	gatgggcat	ttcgacgacg	atctcggcct	120
tatgaacaac	cacatgaacc	acactatgaa	cgcgatgaac	atgcagatgc	gctcgaatga	180
tgcctgatg	aacagcttta	tgcccgatcc	cttcgatgcg	gtctcgcctt	ttgaccaggg	240
attccagcag	aacgctctca	tggagcgtcc	gcagatgccg	gccatgccag	ccatgggact	300
cttcggcatg	cccatgatgc	caaaacttta	tgcctgatg	aacgctgcta	ttggtgggaa	360
ttcaggcgca	tccttctgcc	agagcaccgg	gatgaccatg	tcctcgggtt	ccgatgggag	420
tgctcagatc	taccaggcca	gcactagttc	caagacagga	ccgggaggcg	ttcgtgagac	480
ccgcaagacg	gtgcagg					497

<210> 64
 <211> 685
 <212> DNA
 <213> Drosophila

<400> 64						
aaaatattcg	tgaaaattct	gcatacggaa	agaagaaaat	tcgagcaaca	gaaagccaac	60
acaatccaca	aaaatgtctt	tattcggagc	gttgatgggt	gatttcgacg	acgatctcgg	120
ccttatgaac	aaccacatga	accacactat	gaacgcgatg	aacatgcaga	tcgctcgat	180
gaatcgccctg	atgaacagct	ttatgcccg	tccttcatg	caggtctcgc	cctttgacca	240
gggattccag	cagaacgctc	tcattggagcg	tcgcagatg	ccggccatgc	cagccatggg	300
cctcttcggc	atgcccatga	tgccaaactt	taatcgccctg	ttgaacgctg	atattgggtg	360
caattcaggc	gcattcctct	gccagagcac	cgtgatgacc	atgtcatcgg	gtcccgatgg	420
gcgtcctcag	atctaccagg	ccagcactag	taccaaaaca	ggaccgggag	gcgttcgtga	480
gacccgcagg	acggtgcagg	actcgcgcac	tgggggtgaag	aagatggcca	ttggtcatca	540
catcggcgag	cgggcacaca	ttattgagaa	agagcaggac	atgcgctcag	gacaactgga	600
ggagcgccag	gagttcatta	atctggagga	gggagaagcc	gagcagtttg	acaggagatt	660
tacatcgcg	gctagtcgcg	gagcg				685

<210> 65
 <211> 540
 <212> DNA
 <213> Drosophila

<400> 65						
aaagaaaata	ttcgtgaaaa	ttctgcatac	ggaaagaaga	aaattcgagc	aacagaaagc	60
caacacaatc	cacaaaaatg	tctttattcg	gagcgttgat	gggtgatttc	gacgacgac	120
tcggccttat	gaacaaccac	atgaaccaca	ctatgaacgc	gatgaacatg	cagatgcgct	180
cgatgaatcg	cctgatgaac	agctttatgc	ccgatccctt	catgcaggtc	tcgccccttg	240
accagggatt	ccagcacgaa	cgctctcatg	gagcgtccgc	agatgccggc	catgcagcca	300
tgggcctctt	cggcatgcca	tgatgccaac	tttaatcgcc	tggtgaacgc	tgatattggg	360
ggcaattcag	gcgcatcctt	ctgccagagc	accgtgatga	ccatgtcatc	gggtcccgat	420
gggcggctct	cagatctacc	aggccagcac	tagtaccaaa	acaggaccgg	gaggcggtcg	480
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<210> 66
 <211> 681
 <212> DNA
 <213> Drosophila

<400> 66
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 gccaacacaa tccacaaaaa tgtcttttatt cggagcgttg atgggtgatt tcgacgacga 120
 tctcggcctt atgaacaacc acatgaacca cactatgaac gcgatgaaca tgcagatgcg 180
 ctcgatgaat cgctgatga acagctttat gcccgatccc ttcatgcagg tctcggcctt 240
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 catgggcctc ttccgcatgc ccctgatgcc aaactttaat cgcctgttga acgctgatat 360
 tgggtggcaat tcagggcgcat ccttctgccg gagcaccgtg atgaccatgt catcggttcc 420
 cgatgggcgt cctcagatct accaggccag cactagtacc aaaacaggac cgggaggcgt 480
 tcgtgagacc cgcaggacgg tgcaggactc gcgcactggg gtgaagaaga tggccattgg 540
 tcatcacatc ggcgagcggg cacacattat tgagaaagag caggacatgc gctcaggaca 600
 actggaggag gccaggagt tcattaatct ggaggaggga gaagccgagc agtttgacag 660
 ggagtttaca tcgcgcgcta g 681

<210> 67
 <211> 675
 <212> DNA
 <213> Drosophila

<400> 67
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 agccaccaca atccacaaaa atgtctttat tcggagcgtt gatgggtgat ttcgacgacg 120
 atctcggcct tatgaacaac cacatgaacc acactatgaa cgcgatgaac atgcagatgc 180
 gctcgatgaa tcgcctgatg aacagcttta tgcccgatcc cttcatgcag gtctcggcct 240
 ttgaccaggg attccagcag aacgctctca tggagcgtcc gcagatgccg gccatgccag 300
 ccattggcct cttcggcatg cccatgatgc caaactttaa tcgcctgttg aacgctgata 360
 ttggtggcaa ttcaggcgca tcttctgcc agagcaccgt gatgaccatg tcatcggttc 420
 ccgatgggcg tcctcagatc taccaggcca gcactagtac caaacagga cggggaggcg 480
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 gtcatcacat cggcgagcgg gcacacatta ttgagaaaga gcaggacatg cgctcaggac 600
 aactggagga ggcgaggagt tcattaatct ggaggaggga gaagcgagca gtttgacag 660
 gagtttacat cgcgc 675

<210> 68
 <211> 627
 <212> DNA
 <213> Drosophila

<400> 68
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 aagccaacac aatccacaaa aatgtcttta ttccgagcgt tgatgggcga tttcgacgac 120
 gatctcggcc ttatgaacaa ccacatgaac cacactatga acgcgatgaa catgcagatg 180
 cgctcgatga atcgctgat gaacagcttt atgcccgatc cttcatgca ggtctcggcc 240
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 cccgatgggc gtctcagat ctaccaggcc agcactagta ccaagacagg accgggaggc 480
 gttcgtgaga cccgcaagac ggtgcaggac tcgcgcactg ggtgaagaa gatggccatt 540
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 caactggagg agcgccagga gttcatt 627

<210> 69
 <211> 686
 <212> DNA
 <213> Drosophila

<400> 69
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 cagaaagcca acacaatcca caaaaatgtc tttattcggg gcgttgatgg gtgatttcga 120
 cgacgatctc ggccttatga acaaccacat gaaccacact atgaacgcga tgaacatgca 180

gatgcgctcg	atgaatcgcc	tgatgaacag	ctttatgcc	gatcccttca	tgcaggtctc	240
gccctttgac	cagggattcc	agcagaacgc	tctcatggag	gtccgcagat	gccggccatg	300
cagccatggg	cctcttcggc	atgcccatga	tgccaaactt	taatcgctg	ttgaacgctg	360
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ggacaactgg	aggagcgcca	ggagttcatt	aatctggagg	agggagaagc	cgagcagttt	660
gacagggagt	ttacatcgcg	cgctag				686